

Serial No. 08/148750



IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

R. Ward  
5/12/95  
#4  
Amatt A  
Ent.

**Patent Application**

Inventor(s) Juergen Cezanne  
Gary Wayne Elko  
Case 1-8  
Serial No. 08/148750  
Filing Date November 5, 1993  
Examiner S. Brinich  
Title Adaptive Microphone Array

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D. C. 20231 on

APR 26 1995

(Date of Deposit)  
APR 26 1995  
Date

Group Art Unit 2612

THE COMMISSIONER OF PATENTS AND TRADEMARKS  
WASHINGTON, D. C. 20231

SIR:

AMENDMENT

In response to the Office action of January 26, 1995, please amend the above-identified application as follows:

IN THE CLAIMS

Amend claim 1:

- 1 1. (Amended) A method of enhancing the signal-to-noise ratio of a  
2 microphone array, the array including a plurality of microphones and having a  
3 directivity pattern, the directivity pattern of the array being adjustable based on one  
4 or more parameters, the method comprising the steps of:
- 5 a. evaluating one or more parameters to realize an angular orientation of a  
6 directivity pattern null, which angular orientation reduces microphone array  
7 output signal level in accordance with a criterion, said evaluation performed  
8 under a constraint that the null be precluded from being located within a  
9 predetermined region of space which comprises a range of directions about the  
10 array, which range reflects a predetermined directional variability of the  
11 desired acoustic energy with respect to the array;
- 12 b. modifying output signals of one or more microphones of the array based on  
13 the one or more evaluated parameters; and

Al  
Cont.